

## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

T710X

(i) APPLICANT: Andrew C. Hiatt  
Floyd Rose

5 (ii) TITLE OF INVENTION: COMPOSITIONS FOR  
ENZYME CATALYZED  
TEMPLATE-  
INDEPENDENT CREATION  
OF PHOSPHODIESTER  
BONDS USING PROTECTED  
10 NUCLEOTIDES

(iii) NUMBER OF SEQUENCES: 8

(iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Lyon & Lyon  
(B) STREET: 633 West Fifth Street  
Suite 4700

(C) CITY: Los Angeles  
(D) STATE: California  
(E) COUNTRY: U.S.A.  
20 (F) ZIP: 90071

(v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
storage  
(B) COMPUTER: IBM Compatible  
(C) OPERATING SYSTEM: IBM P.C. DOS 5.0  
(D) SOFTWARE: Word Perfect 5.1

(vi) CURRENT APPLICATION DATA:

30 (A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:  
  
Prior applications total,  
including application  
described below:

35 (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Guise, Jeffrey W.

(B) REGISTRATION NUMBER: 34,613

(C) REFERENCE/DOCKET NUMBER: 207/145

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (619) 552-8400  
(B) TELEFAX: (619) 552-0159  
(C) TELEX: 67-3510

(2) INFORMATION FOR SEQ ID NO: 1:

**(i) SEQUENCE CHARACTERISTICS:**

- (A) LENGTH: 12  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ix) Features:

10 (D) Other Information: base number 12 is  
m7g

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

cccccccccccc CG 12

15 (2) INFORMATION FOR SEO ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

25 CCCCCCCCCCCC CCCCCCTGCA 19

(2) INFORMATION FOR SEO ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

**CTGCAGGGGG GGGGGGGGGG** 20

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- 5                   (A) LENGTH: 9  
                 (B) TYPE: nucleic acid  
                 (C) STRANDEDNESS: single  
                 (D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

10 CCCCCCCCC 9

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- 15                   (A) LENGTH: 9  
                 (B) TYPE: nucleic acid  
                 (C) STRANDEDNESS: single  
                 (D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

20 GGGGGGGGGG 9

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- 25                   (A) LENGTH: 5  
                 (B) TYPE: nucleic acid  
                 (C) STRANDEDNESS: single  
                 (D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

30 CTGCA 5

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- 35                   (A) LENGTH: 9  
                 (B) TYPE: nucleic acid  
                 (C) STRANDEDNESS: single  
                 (D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

CTGCATGCA

9

## (2) INFORMATION FOR SEQ ID NO: 8:

## 5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

10 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CTGCATGCAG

10